

ANGOLAN EMBIIDIDS

Scutellinia malikini (Ross) Luanda
 " vilhena (Ross) Dundo
 " arriaga n. sp. 5 Mi. S. Vila Arriaga
 " negolae n. sp. Ngola 1550 m
 " orarius n. sp. 19 Mi S. Muxima etc.

Machadoembia angolica Ross Dundo

Machadoembia n. spp.

Embia mopanea n. sp. 19 Mi S. Vila Roxadas

Dihydrocerus angolensis n. sp. 10 Mi S. Sa da Bandeira
 " pallidus n. sp. 7 Mi N. Vila Pereira d'Eca

Entomembia angolensis n. sp. 10 Mi N.W. Conde

Melanoembia bifida n. sp. 5 Mi S. Vila Arriaga

Aspidembia serrata bandeirica n. sp. 20 mi N.E. Sa da Bandeira

Eremembia ensigera n. sp. SWA Fish R. Cyn. (about 40 mi from Klein Keras
 VIII-20-58

Paroligembia angolica Ross 25 km N.E. Moçamedes

Cameroun Embiids

- Plesembia camerounensis (Var.) Kumba
 ✓ Plesembia convergens n. sp. Beau, flight at dusk
Plesembia aethiopicum Kumba
Cordylembia rageau n. sp. Yaounde
 ✓ " dissimilis R-K. Kumba
 ✓ Embia filulatoria Endl. Rei Bulz
 ✓ Holoembia rageau n. sp. Yaounde

171
 79
 89
 12
 13
 14
 22

ANGOLAN CULTURES

- A-1 ANGOLA: 18 MI. N. LUANDA, 120 M, XII-1-66
Savanna with clumps of baobabs, euphorbia, thorn-trees.
This culture from under bark of slender dead branches. Some
surface web but all embryos under bark. Could be S. malkeini
- A-2 ANGOLA: 11 MI. W. V. SALAZAR, 420 M, XII-3-66
Escarpment with high tropical forest subject to long dry periods
No moss or epiphytes on trunks. Under story cleared and
planted with coffee. Culture contains 1 adult ♀ Parthenambria
in old bark in crevice of buttressed tree. Silk elastic.
- A-3 Same place but mostly, if not all, Scielesmbria ♀ any young
under bark flakes of hard, smooth-barked, buttressed trees.
Some colonies entirely on under surface of flakes.
- A-4 ANGOLA: 10 MI. W. MALANGE, 1120 M, XII-4-66
Low, dense savanna on top of flat-topped ridge. Scielesmbria, 2 sp?
collected in shallow galleries on termite mounds, ledge crevices and
bark. Eggs and early young present. Eggs of B+W ♀ laid under
layers of dense silk.
- A-5 Same place. One ♀ of Parthenambria ^{4 eggs} in crevices of dead
limb on low tree. May include Scielesmbria.
- A-6 ANGOLA: 7 MI. W. XANDEL, 1170 M, XII-4-66
High Katanga-type savanna woodland on flat-topped mesa
in full leaf. Culture of large pale species in bark of recently-
cut roadside trees. Large loose-silk galleries extend over lichens,
dense galleries under lichens and under loose bark and wood
splints. 3 ♀ together with huge broods of 2-3rd instar.
- A-7 Same place Small culture of some species
- A-8 Same place Culture of 2-3 ♀ of Parthenambria in crevices
of dead twigs, bark etc.
- A-9 Same place and niche, species?

A-10 ANGOLA: 30 MI. E. XANDEL, 820 M, XII-5-66

Low open savanna woodland, many open areas but typical Katanga-type. Collected on recently-felled roadside trees. This culture contains 2-3 large B+W. n. sp. ♀s with egg masses and 1st instar young. one preserved. One nest with eggs photographed. Species has very slight gallery system on rough bark surface. Remains concealed in crevice retreat.

ENTOMEMBIA

A-11 Same place and niche

May contain Parthembia and 1-2 spp. Scelambria.

A-12 Same place, niche, and contents.

Young brood from large pale species webbing patch of underside of limb prob same sp. as A-6

A-13 ANGOLA: 10 MI. N. SAO COMBA DAO 1230 M, XII-6-66

Savanna in broad valley. Scelambria and Parthembia 1 ♀ in bark crevice of felled tree, underside of trunk. Embryos rare, small culture

A-14 ANGOLA: 6 MI. S. ROBERT WILLIAMS, 1630 M, XII-7-66

Low, cut-over savanna, occasional granite outcrops. Heavy rain night before. Large Rd + Bl ♀ (Dibyboursus?) under granite flake at base of kopje. 2 ♂s caught sitting on leaves 12:30 PM, overcast day, rain approaching. 1 male added to culture to insure mating.

A-15 Same place.

1 all black Scelambria in crevice of limb under loose bark

A-16 ANGOLA: 2 MI. N. CACONDA, 1650 M, XII-8-66

1 juv orange + black species under bark of recently-cut stump in high savanna woods.

A-17 Same place

Several terat ♀ (nymphs?) in galleries on under surface of logs and limbs on ground. Wood usually burned. Also 1 Scel ♀ in same niche

- A-18 Same place
1 adult ♀ of red + bc Dityb. and two nymphs, each with silerogibbid larva attached. Each in burrow extending up from soil beneath a dead branch or small log. The female had extensive webs into curled leaves of litter.
- A-19 Same place
Several adult ♀ Scutellaria in galleries under dead bark.
- A-20 ANGOLA: 20 MI. S. CACONDA, ¹⁶⁸⁰1680 M, XII-8-66
Several adult ♀ Scutellaria in galleries under dead bark. Prob. same sp. as A-19.
- A-21 ANGOLA: 23 MI. W. FOLGARES, 1200 M, XII-9-66
High aracia savanna on undulating terrain with rock-studded rises with dense thorny thickets. Burned over but green grass just started due to first rains of season.
Large culture of 3 dark ♀ (Melanembia?) with eggs or 1st instar. Arise from soil burrows beneath stones, into holes at edge or ^{on} under side of stone. Highly gregarious.
- A-22 Same place 1 ♀ and 1st instar of above A-21
- A-23 Same place " " eggs " " "
- A-24 Same place
Small species radiating in moss and caked mud on lower edge of stone. About 12 cultured. May be a termit.
- A-25 ANGOLA: 16 MI. W. PAIVA COUCEIRO, 1330 M, XII-9-66
Several nymphs of a red + brown species under stones and logs at base of granite koppie in savanna.
- A-26 Same place:
One nest of Scutellaria in bark on under surface of freshly fallen dry branch on ground.
- A-27 ANGOLA: 5 MI. N. SA DA BANDEIRA, 1800 M, XII-10-66
Low natural savanna on steep granitic hill. Scutellaria ♀♀ in crevices of exfoliating granite ledges ♀ + eggs only.

A-28 ANGOLA: 38 MI. W. VILA ARRIAGA, 350 M, XII-11-66

Large dark brown ♀ and eggs, naked laid in plate, under dry bark of limbs and scarred branch nodes of acacias in high, dense grove of trees following wash, recent rain, but biologically early. Surrounding hills with low shrub-like trees.

ENTOMEMBIA - A-28

A-29 Duplicate of above.

A-30 ANGOLA: 35 MI. S.E. MOCAMEDES, 350 M, XII-12-66

Dry.

Undulating plateau with numerous Welwitschias in drainage as well as occasional low, flat-topped acacia. Numerous stones. Embiid webs numerous in leaf litter under acacia but especially around trunk bases of Welwitschia, its leaf-shaded litter and leaf contact with ground. Galleries penetrate soil, esp. following down root stock of Welwitschia caught 1 adult ♀ and 2 penult ♂ May be of Embia.

A-32 ANGOLA: 24 MI. N.E. MOCAMEDES, 400 M, XII-12-66

^{barren} Sandy plain with kopjes. Still within fog range. Embiids in lichen tufts in heavily-shaded, drafty defiles atop kopje, also on shaded side of fluted Euphorbia. Small teratermbiid, 2 males caught.

A-33 Same

A-34 ANGOLA: 5 MI. E. VILA ARRIAGA, 920 M, XII-13-66

Dense scrub with baobabs. Recent heavy rain. "Spring". Large brown, prob. Melanembia bifida and same as A-28 in split, old insect-bored branch ends, bark often gone wood punky. Large galleries following pith, or borings, or dug by large ♀. Eggs plastered on surface of cavity naked white much like A-28

ENTOMEMBIA - A-28

A-35 Same place

Sculembia arriaga ♀♀ from lichen-encrusted, rocks ^(ledges) in shade of brush. Naked white silken radiating from crevice.

A-36 Same place

1 juv terat under exfoliating bark flakes on large tree bordering creek.

A-37 ANGOLA: 12 MI. E. VILA ARRIAGA, 1450M, XII-14-66

Near summit of west slope of escarpment above V. Arriaga
Good Brachystegia woodland in vale, granitic cliffs.
1 ♂ Sulembia in dead bark of limb.

A-38 ANGOLA: 12 MI. S.E. SA DA BANDERA, 1600M, XII-15-66

High Brachystegia woods, 3-4 half grown Dihyboerus
in matted leaves under stones and dead branches
each in separate place. Recent rain.

A-39 ANGOLA: 16 MI. S.E. JOAO DE ALMEIDA, 1350 M, XII-15-66

Mopane, next to granite koppie. Recent rain.
Terat females, eggs, and 1st instar under dry, old
bark of small limbs of shrub-like tree in shade
of baobab. One ♀ in pith channel. Eggs large, few
in number. About 3 ♀ cultured. PAPOLIGEMBA

A-40 ANGOLA: 10 MI. S. CHIBEMBA, 1200M, XII-15-66

Mopane on normally-dry granitic sediments
Cultured 1 juv Dihybo.? in matted damp leaves
under stone in shaded thicket.

A-41 ANGOLA: 4 MI. S.E. CAHAMA, 1100M, XII-16-66

One juv (terat?) in crevice of black cotton soil under stone.
on dry river channel, in shade of large tree. Near
river flowing in flood. Photographed woman with tin of H_2O

A-42 ANGOLA: 19 MI. S.E. ROCADAS, 1100M, XII-16-66

One juv Embria in matted leaves under edge of deeply-
imbedded dry log in sand. In dense mopane forest

A-43 Same place.

Several young embryos in bark flakes of standing
tree. May be of a large species

A-44 ANGOLA: 10 MI. S.E. MONGUA, 1100M, XII-17-66

1 adult ♀, 1 parult ♂ of terat in bark flakes of
large oak-like tree in mopane on sandy flat.
♀ had a few large eggs in cell.

A - 45 ANGOLA: 9 MI. N.V. PEREIRA D'ECA, 1080 M, XI-17-66

Mopane woodland with clumps of mixed trees and shrubs.
Large oak-like trees ~~too~~ with rough blackish bark flakes.
Recent rain. Large webs around branch butts and scars
radiating on surface in a thin veil-like web from deep
crevices or under bark. Females with egg clusters just
hatching.

New genus? + sp

A - 46 Same place.

PARALIGMIDIA

Teratobia scattered webs on rough bark.